

HOLLOW TILE FOR THE HOME

“For a Man’s House is His Castle”

Hollow Tile Building Association.

Hollow Tile for the Home

*By frost, nor fire, nor flood—nor even
time is well-burned clay destroyed.*

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THIS book is published by the leading Hollow Building Tile manufacturers of the United States in order that the home builders of America may learn the many decided advantages, economies, and comforts of this modern building material.

That you may know you are getting reliable material when purchasing Hollow Building Tile, the product of every member of the Association is trade-marked

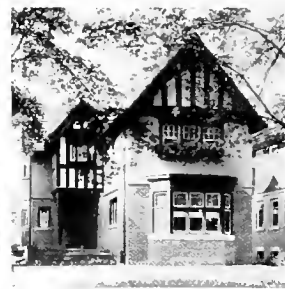
MASTERTILE

This means that every piece of Hollow Building Tile bearing this trade-mark must conform to the high standards adopted by the Association. Thus the stamp—**MASTERTILE**—is your guarantee of a superior product.

This trade-mark also makes identification easy and is your protection as well as that of the manufacturer against substitution. Always insist that your dealer furnishes you Hollow Building Tile trade-marked **MASTERTILE**.

The Hollow Building Tile Association
CONWAY BUILDING CHICAGO

Publication No. 2
Serial No. 3



HOLLOW Tile satisfies the hopes and aims of the home builder as no other material can.

With it the possibilities are abundant for making the home attractive and substantial.

Comfort and convenience, permanence, economy in initial expense, and lessened cost of upkeep are all things that make Hollow Tile the most suitable material for the home.

Then, too, it has another advantage, for Hollow Tile possesses the quality that makes it safe against a communicated fire.

The Hollow Tile home provides everything that we might reasonably expect in any building and, in addition, comfort not possible with any other material.



Building Your Own Home

What joy there is in planning your Own Home!

It is a fascinating all-engrossing occupation!

In your own home, you want to put into definite form your ideas of what a home should be; you want to give expression to your artistic tastes; you want to realize your right to secure comforts, conveniences, and the feeling of permanence.

You want the exterior treatment of your home to be indicative of your personality. Your plans for the rooms receive the most careful consideration. The plumbing, the heating apparatus, the fixtures, all the permanent equipment, must be of the highest type.

It is right that you should give earnest and careful attention to these details. They are all important.

"For a man's house is his castle."

But, in the all-absorbing thought given these multitudinous items, there is great danger of overlooking the very basis of real permanence and ever-increasing joy in the home.

Whether you are building for your own permanent occupancy or for future re-sale, your investment in the walls of your home should receive as much, if not more consideration, than the selection of a building site.

For this reason, we want to tell you about Hollow Building Tile, because, with a structure of Hollow Tile, you can have a home which will embody all your ideals, all your desires, down to the smallest detail.

And, in addition, a Hollow Tile Home will give you a feeling of satisfaction, of security, of permanence, and of comfort not possible with other building materials.

And Hollow Tile will do this with economy in initial cost and a sharp reduction in maintenance expense.



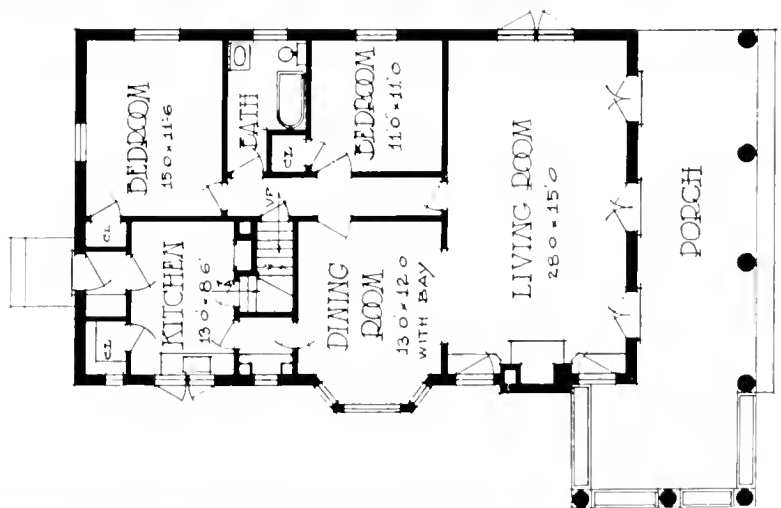
U. S. Housing Project No. 18, South Charlestown, West Virginia.

Picture taken at time buildings were being constructed. Every house is built of Hollow Tile and finished with stucco.



CHARMING Hol-
low Tile bungalow,
containing five
rooms and bath,
with provision for
additional bed-

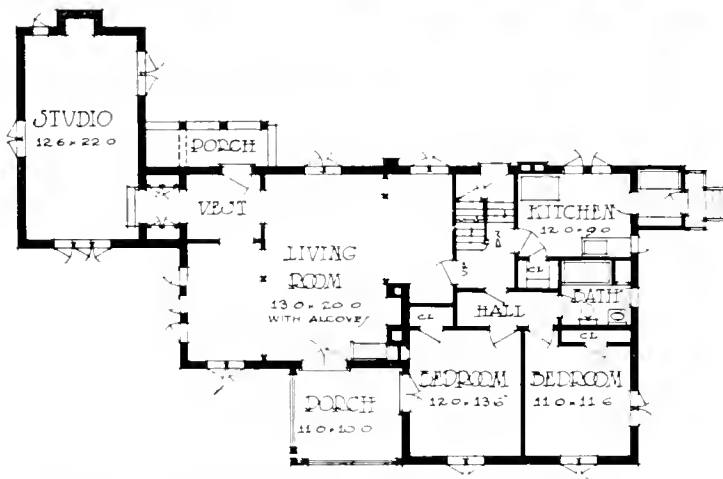
rooms in the second story. A large living porch with three pair of French doors gives to this Bungalow a quaint effect that makes it a delightful type and one that is not restricted to any particular clime. Only one end of the porch is covered by a roof, so that the living room has direct sunlight.





THIS quaint, country home of Hollow Tile with studio or play room contains a delightful, large living room with grouped, outswinging casement windows. The simple shingle tile roof helps to make it an especially artistic practical home. There is a large fireplace in both the living room and the studio.

While all of the main living rooms are on the first floor, the attic affords space for two additional rooms and bath.



Evolution of Hollow Tile

Hollow Tile is not an untried building product which is to be finally perfected at the expense and costly experience of those who are willing to "pioneer" in new things in the belief that they are better than the old.

Hollow Tile has been in use in this country for about half a century. It is formed of clay, or shale, and then burned by fire in kilns which makes a dense, strong dependable building material.

Hollow Tile is an evolution of solid masonry. Before the development of Hollow Tile solid masonry was used for fire safe construction. With the advent of skeleton steel structures, it was found necessary to use lighter materials for fireproofing and Hollow Tile was evolved for this purpose.

But so completely has Hollow Tile met every requirement for a light weight, strong and fireproof masonry material, that its use has been extended to include every type of building structure.

Hollow Tile is scientifically proportioned and permits of manufacture in large units. It is hollow, affording complete insulation against heat, cold, and moisture, and its reinforced web formation gives it great supporting strength. Hollow Tile insures positive resistance to the disintegrating effects of time and weather.

And thus, while the basic purpose of Hollow Tile was to provide a light weight masonry material for fireproofing steel structures, its use developed the added highly

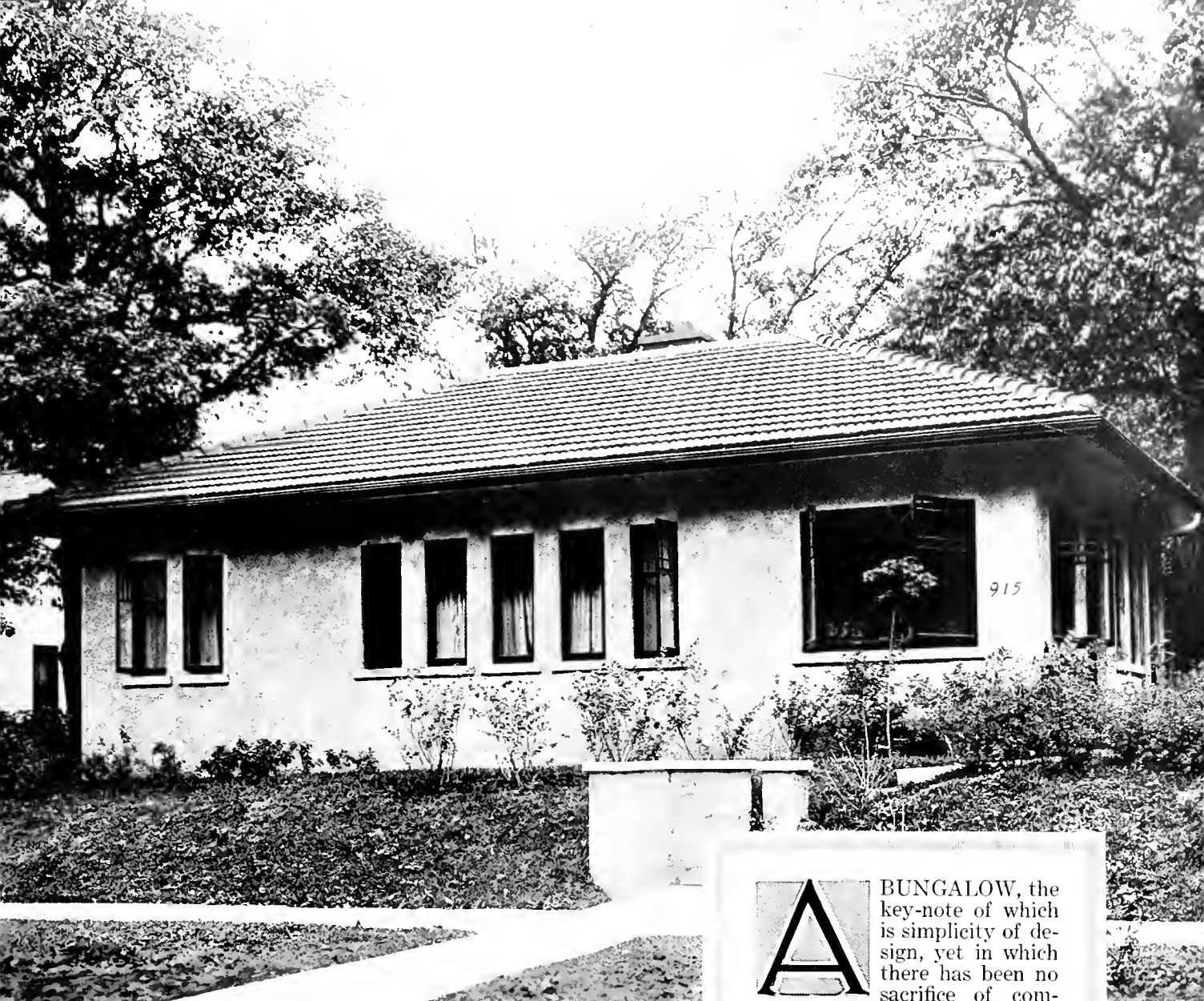
desirable feature of a larger unit, easy to handle and erect, and effecting a big saving in both labor and mortar.

At the same time, the sizes and shapes of Hollow Tile are of such scope that it readily adapts itself to every phase of private, commercial or public construction.

All these qualities have made Hollow Tile invaluable in the building world. It is recognized by architects and builders everywhere as a most dependable structural material.

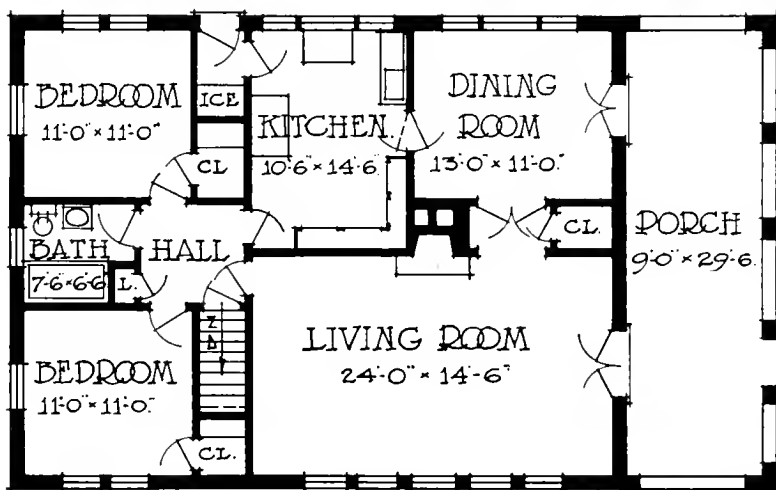
Surely, in the building of your home, too much importance cannot be placed on the masonry material, for it is the structure on which the exterior and interior of your home will depend for satisfactory wear and permanence. As a Hollow Tile structure will not rust, sag, shrink, nor require repairs or replacements, the problem of maintenance is reduced to a minimum. Doesn't this mean something to you, who are making an important investment in a home of your own?

Hollow Tile, because of its cellular construction, is impervious to heat, cold or moisture. The confined air cells make it a non-conductor. Thus, heat cannot penetrate to the interior in summer, affording a pleasant, cool refuge on a hot summer's day. And, on the same principle, the chilling cold of winter cannot pierce a Hollow Tile wall, so that there will be no heat wasted, and the consumption of fuel is reduced to a minimum, even in the severest winter weather.



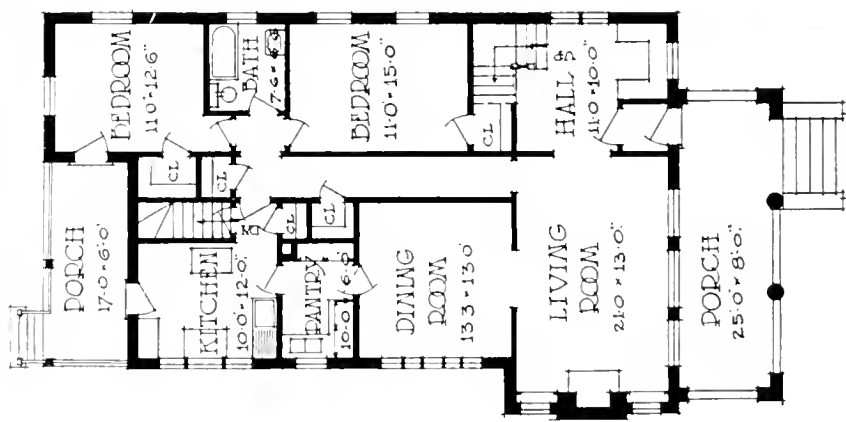
BUNGALOW, the key-note of which is simplicity of design, yet in which there has been no sacrifice of comfort in order to adhere to the design lines. A large porch under the roof, together with an extremely simple interior plan provides all that can be desired in a bungalow.

However, the design is such that this bungalow can be erected at a very moderate cost.





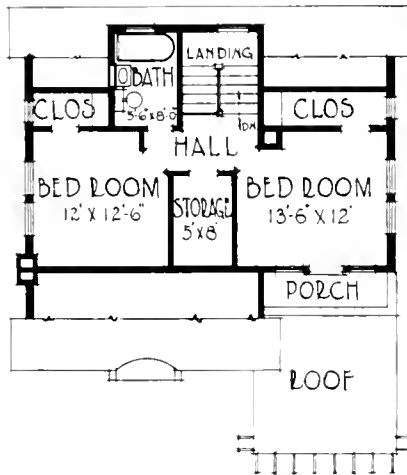
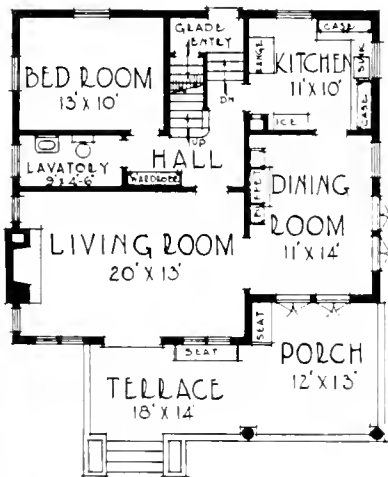
THIS very attractive city home of a semi-bungalow type contains nine rooms, reception hall, pantry and two baths. The very roomy half story provides space for four bedrooms, bath and a sleeping porch. By slightly rearranging the entrance hall and changing the window to another front door, the upper story could be planned as a separate five-room-and-bath apartment thus providing the possibilities of a duplex apartment.





ESPECIALLY well planned city home of a typical English design, embodying a combination of stucco with brick trim. A modification of the accepted plan would permit of large bedrooms on the second floor, thus taking advantage of the complete exposure afforded by the pergola instead of a roof over the porch.

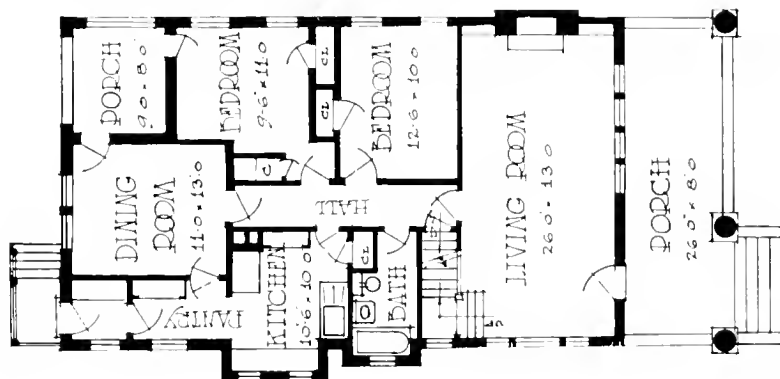
The clever combination of brick trim with stucco lends style and distinction, making this a very effective home.





HOLLOW Tile bungalow of unusual style. The dignified simplicity of this bungalow and the abundance of room provided with light on all sides makes this a really worth while home. It has five large rooms with a living room exposed to light on two sides, and contains ample pantry and closet room and bath.

This bungalow, due to its clever floor arrangement, will make housekeeping easy.



Economy of Hollow Tile

Hollow Tile is manufactured in large units, facilitating erection to a marked degree. The units are easily handled, progress is rapid, and because of their size, there is distinct saving in labor and mortar—two considerable items in present-day building construction. And, at the same time, you have all the essentials and benefits of solid masonry construction.

Let us quote you from a letter written in 1917 by a prominent Chicago contractor with reference to the cost of a Hollow Tile home.

"Yours of recent date received regarding the building of houses which cost in the neighborhood of \$2,500 to \$4,000.

"We have just gone through a very strenuous time in figuring 240 houses, and in arriving at our figures, we figured frame, concrete and hollow tile with the result that hollow tile houses could be built just as cheap as frame houses. In addition to the economy of the original cost, there is also to be considered the question of economy of upkeep and insurance. The insurance rate is very much lower on a tile house than on a frame. The result of our entire operations in this matter is clearly in favor of the hollow tile house, as the original cost is no more and the upkeep is very much less and also the insurance is on a better basis than on a frame house.

"I can say without hesitation to anyone who is interested in building such houses, that from our experience the hollow tile house is the one style of house that should be built."

When you use Hollow Tile you have the assurance that after your original investment there will be no further demand made on you for upkeep. The Hollow Tile structure, once erected, is there to stay—for all time—immune from deterioration, shrinkage, sagging, rust.

Because Hollow Tile finishes, which are taken up at length on page 21, are most popular in stucco and brick, the item of painting is also eliminated.

And because a Hollow Tile structure acts as a rigid barrier to the icy drafts of severe winter weather, you are assured of comfortable temperatures in your home even on the coldest days, at a minimum of fuel consumption.

For all these reasons—or for any one of them—you will want to use Hollow Tile for your home. Not to do so would be "penny wise and pound foolish." You want to build as economically as possible, you want to realize one hundred cents for every dollar spent, and you do not want to spend more than necessary. And, at the same time, you want your own home to be a real home, with a beautiful exterior, and with all the elements of permanence, comfort, health and protection to your dear ones that modern science affords.

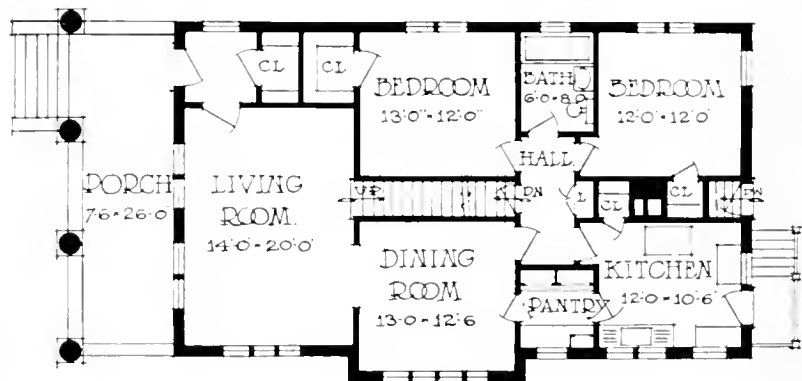
You will want the best and most economical construction—Hollow Tile—for your home—

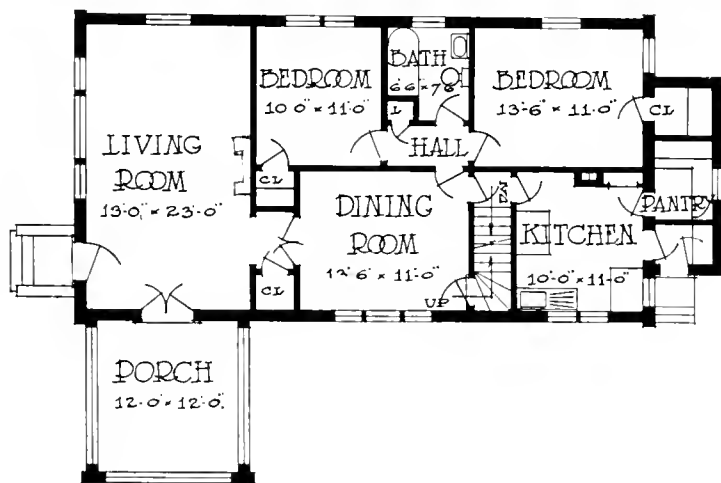
"For a man's house is his castle."



SEMI-bungalow of texture face Hollow Building Tile, containing eight rooms, pantry and bath. A rear view is given in order to show clearly the effect of the texture face tile which is largely covered in front by the porch.

In addition to the rooms indicated on the first floor plan, there are three good sized bedrooms on the second floor. All rooms are ample in size, the interior provides a homelike arrangement.





A

GOOD bungalow type Hollow Tile home, suitable for a corner lot.

It contains five rooms, pantry and bath, and in the half story above there is ample room to provide two additional bedrooms.

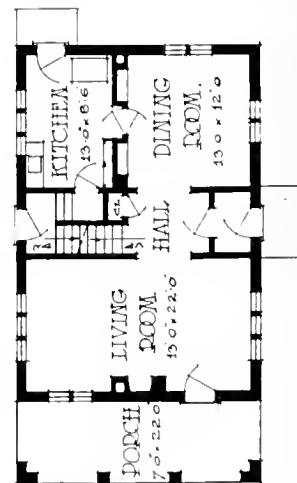
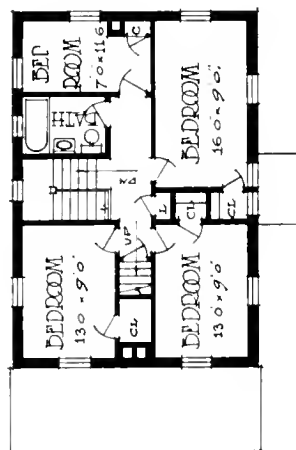
A large living room with a sun parlor extension is one of the deciding features of this home. A fireplace can very easily be arranged in the center of the inner wall of the living room if desired.



A

N excellent type of low cost small center hall house, containing seven rooms and bath, well adapted to stuccoed Hollow Tile construction. Roof has been kept as low as possible to avoid waste space. The division of windows gives a most pleasing effect, and makes the building appear considerably larger than it really is.

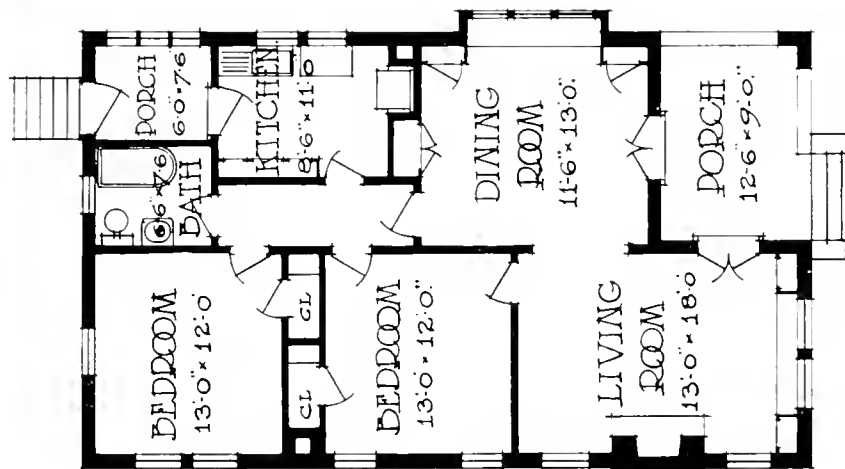
So here is an attractive house, yet one extremely moderate in cost, due to the economies possible in this design.





COZY indeed is this unusually attractive, low bungalow type of Hollow Tile home.

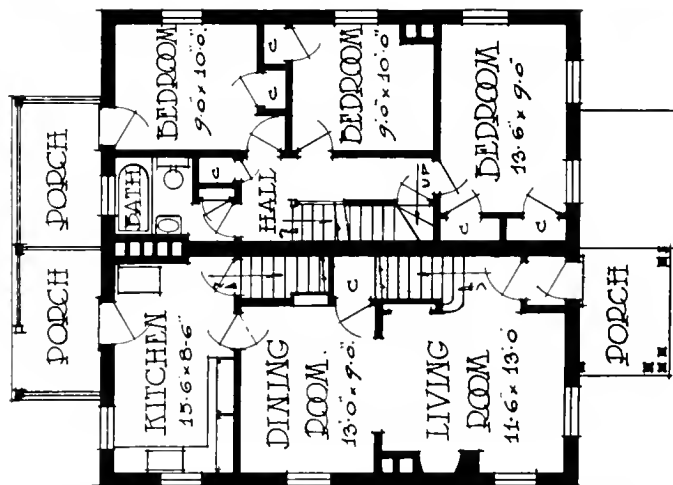
The five rooms and bath are conveniently arranged on one floor. The roof being kept very low, the upper windows in the front and rear are intended to provide only for ventilation of the attic space. The kitchen is of a unique and novel arrangement and requires but a minimum of housekeeping effort.





THESE very attractive low cost small city homes of Hollow Tile are arranged in pairs.

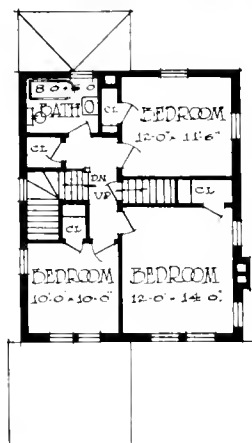
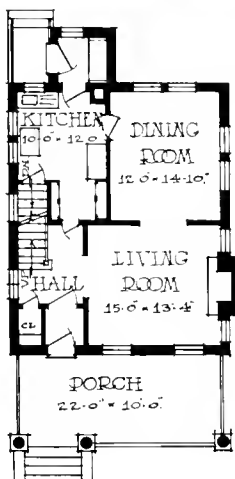
The German-town Colonial Hood and blinds are features of this design. This is an excellent design for the better class workingmen's homes. This plan is one that permits of many variations in the elevation to avoid repetition and monotonous effect, producing a really effective home that adds to the beauty of the locality.





A WELL planned texture face tile home, so designed as to be suitable for a narrow city lot. It contains six rooms and bath, with attic in third story, in which two additional rooms could be arranged.

This design affords very generous closet space, and the rear entry vestibule contains the refrigerator, an excellent feature showing care in the consideration of small details. This plan is well adapted to the colder northern cities.



Finishes for Hollow Tile Homes

Too much importance cannot be attached to the exterior appearance of your home. It is the gauge of your value to the community in which you live—from it is intuitively formed the impression of your artistic taste.

A beautiful, substantial, protective exterior to your home will increase your standing and mark you as a valuable, important fellow-citizen. It will gain you credit, respect, consideration. And should force of circumstances, or your own whim, at any time make advisable the sale of your home, you will realize a far greater return and a sale will be much more readily made, if the exterior of your home is such as is made possible with a Hollow Tile structure.

Probably one of the most important problems of the prospective builder is the matter of exterior finish. He naturally wishes it to be artistic and pleasing to the eye—a keynote to his own personality. He must consider his surroundings and select an exterior finish which will harmonize with them. And, at the same time, the finish to his home should have stability and lasting qualities.

The finishes which may be applied to Hollow Tile homes solves this problem to the absolute satisfaction and delight of the builder.

Simplicity and individuality of outline and color—so highly desirable in present-day architecture, may be achieved to a marked degree in the home built of Hollow Tile. It lends itself to every plan and fancy of architectural construction. And there is hardly a finish which may not be applied to a Hollow Tile home.

Hollow Tile is a rough structural material permitting delightful effects in finishes and color combinations of stucco, brick, terra cotta or stone. It is also furnished with a texture face requiring no further finish. Individual taste may be fully gratified without sacrificing harmony with your surroundings. The finishes applied to Hollow Tile are permanent; they require no painting, renovating, or replacing. There is a stability and a lasting quality to the exterior of a Hollow Tile home, in addition to the artistic possibilities, which surely demand your most serious thought.

STUCCO

The distinctive effects in artistic blending possible in stucco, or “pebble dash,” as it is called, have made it one of the most popular and uniformly satisfactory exterior finishes.

Besides the snow white and gray cement stuccos, there is a wide range of colored stuccos—the colors of which are absolutely fast, sunproof, and permanent, requiring neither refinishing nor recoating—affording you an opportunity for the most artistic colored backgrounds in stucco finish. You may have a solid color, relieved, perhaps, by a contrasting roof or trimmings. Again, most charming combinations of colors may be worked out, permitting of the widest individual expression.

Properly applied to Hollow Tile, stucco becomes a permanent and fixed material. There is no shrinkage, scaling, sagging, or rusting of the Hollow Tile under surface, causing the stucco to check, craze, or crack,

as is the case when stucco is applied over many other forms of construction. Hollow Tile, therefore, provides the logical material over which to apply stucco, whose great popularity is based on its almost unlimited possibilities for pleasing, artistic and lasting effects. And the mellowing influence of time only makes stucco more attractive and beautiful.

Stucco has been used for centuries. Stucco applied on Hollow Tile, eliminates all warping, checking, or scaling of the exterior finish of your home.

Hollow Tile possesses all the advantages of solid masonry, and, in addition, has highly valuable features not peculiar to solid masonry. Its cellular walls are always dry; it is positively cooler in summer and warmer in winter than any other form of masonry construction.

With a stucco finish on Hollow Tile, you secure the combined benefits of a beautiful, lasting exterior and all the comfort and security of a Hollow Tile Home.

BRICK

To those who favor a brick exterior, Hollow Tile as a backing material offers certain distinct advantages over solid masonry.

You have at your disposal all the varied and fascinating combinations effected in brick exteriors—smooth or textured finishes; splendid assortment of colors; the varied shapes and sizes for effective patterns and innumerable bonds and colored mortars to offset monotones. Every effect possible with the use of brick for exterior finish may be most successfully and permanently achieved in conjunction with a Hollow Tile structure, with the added advantages inherent only in Hollow Tile.

LIMESTONE AND OTHER FINISHES

Limestone also lends itself most effectively to exteriors over Hollow Tile, as do terra cotta, stone and marble. In fact, the many distinctive finishes that can be applied to Hollow Tile have a scope affording you every opportunity for the selection of an exterior entirely in accord with your desires and plans. And you may still enjoy the full benefits and comforts of a Hollow Tile Home.

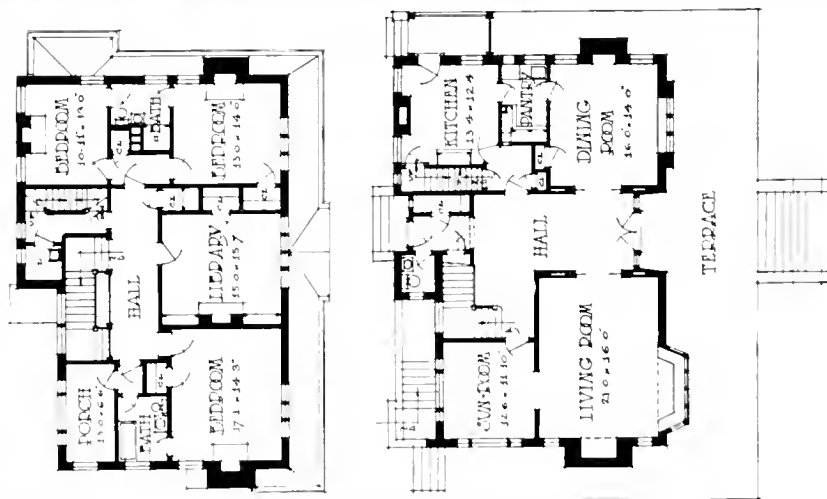
"For a man's house is his castle."

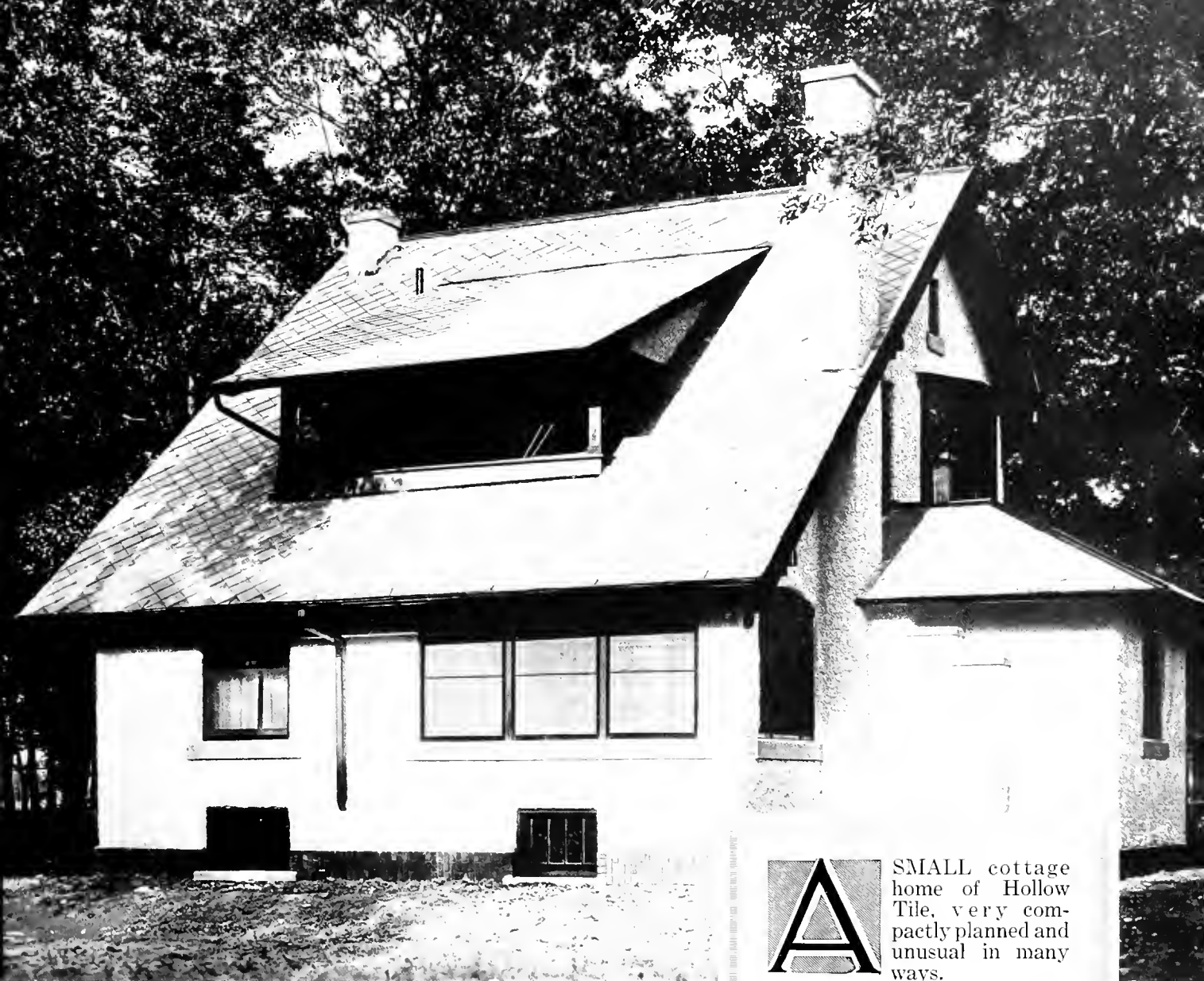


Hollow Tile houses erected by the United States Government Housing Corporation, New Brunswick, N. J.
In the great emergency the United States Government found Hollow Tile the ideal available material, to solve the housing problem.



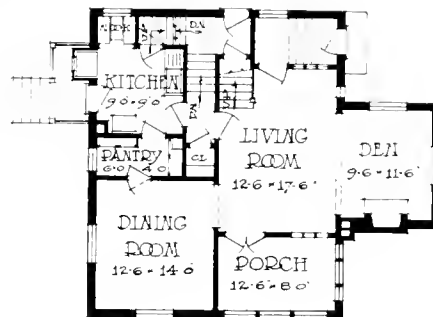
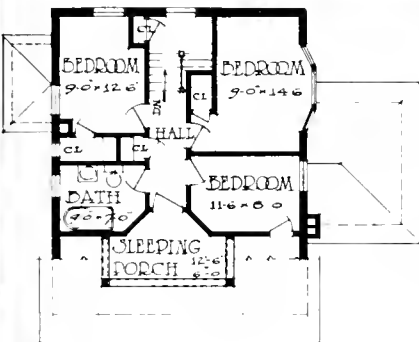
THIS handsome suburban home is faced with sawed Indiana limestone. Very generous halls and service quarters and the numerous open fireplaces are features worthy of note. The so-called "German-town Colonial Hood" is in this house delightfully combined with an otherwise typically English design, simple and dignified in character. The wide terrace and enclosed sun room provide porch facilities for all seasons.





SMALL cottage home of Hollow Tile, very compactly planned and unusual in many ways.

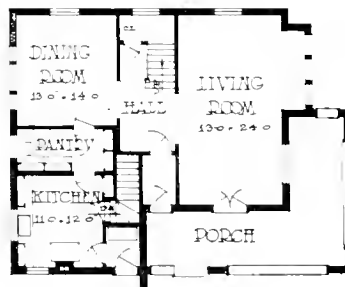
The brick grade course removes the stucco from contact with the earth and insures it against discoloration and damage from freezing, at the same time showing how splendidly stucco blends with a brick trim, affording a contrast in the combining of these materials.





SUBURBAN home of Hollow Tile, providing an abundance of room. In this plan there are seven large rooms with pantry and bath, and space in the attic for at least two additional bedrooms.

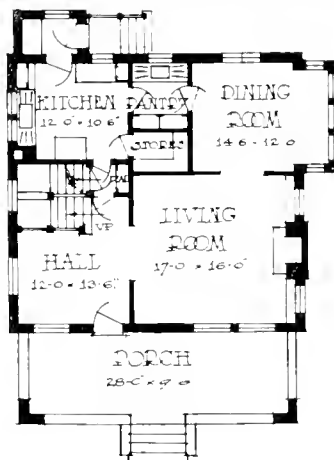
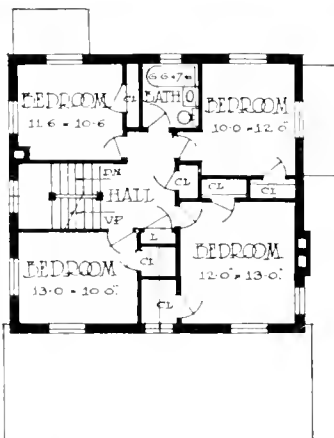
While this is a suburban home, the plan is suitable for the usual city lot. A rearrangement of the second story would make it possible to add economically a second bathroom. A large living room is one of the attractive features of this home.





PRACTICAL Hollow Tile home.

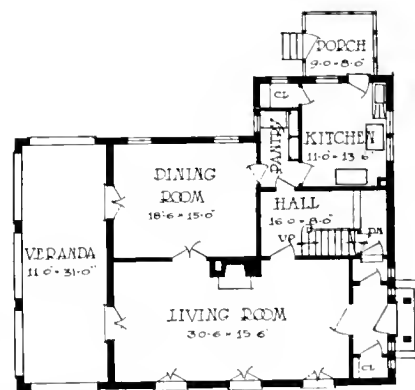
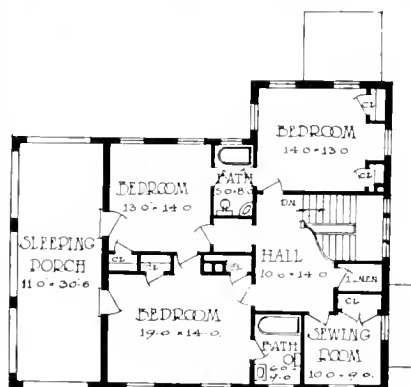
The large plate glass windows and ample closets make this plan popular with the housewife. By a reduction in the pantry and storage closet space, the dining room could be enlarged, and if four bedrooms were not needed, one of the rear bedrooms could be made larger, and the other rear room be made into a small sewing room or nursery, in that way providing an additional utility room.





A BEAUTIFUL suburban Hollow Tile home. Has seven rooms, pantry and two baths. Large veranda and sleeping porch, very large and particularly well planned living room, ingenious arrangement of entrance vestibule, stair hall and service quarters are all features which commend this plan.

The treatment of wrought iron balcony and lattice is most effective on the stucco background. Simple roof lines enhance the effect.

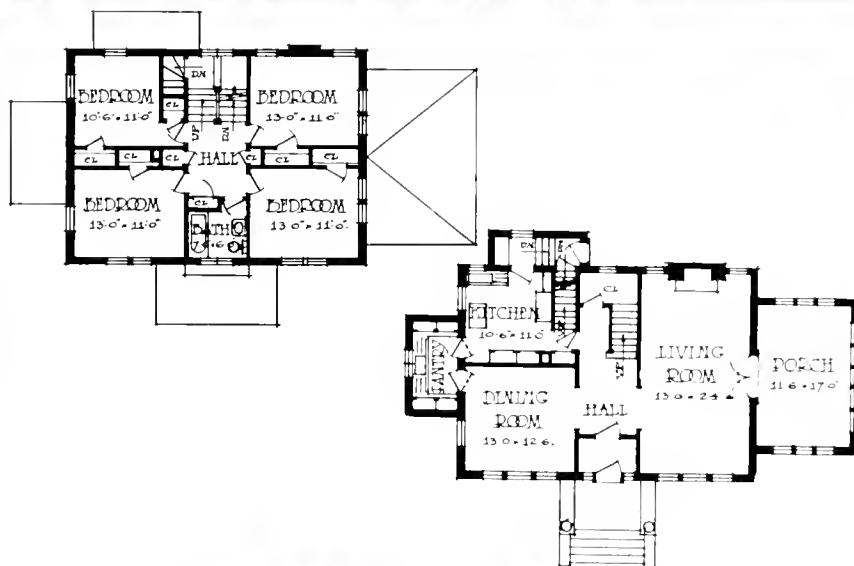




EXTREMELY well planned suburban home of brick trimmed Hollow Tile construction. Space for two additional bedrooms is provided in attic.

The design could be improved by a considerable reduction in size of dormer, or by omitting dormer altogether and reducing the slope of roof, provided the attic bedrooms were not required. The kitchen and pantry arrangement is excellent.

This home embodies all of the desirable elements expected in a home of this size.



Hollow Tile Floors and Partitions

Now let us tell you of the signal advantages of Hollow Tile for the floors and partitions of your home.

The factor of fire safety urges its use upon you. With Hollow Tile floors and partitions, in addition to the structural walls, a fire originating in any part of your home would be practically confined to that section. For just as soon as the flames reached the Hollow Tile, they could go no further. Remember, Hollow Tile will not burn, and heat cannot penetrate it. In such a home, in case of fire, your family, would have ample opportunity to escape to safety, and your fire loss would be reduced to the very minimum.

Should you find that the employment of Hollow Tile for all the floors and partitions of your home would be too burdensome an item (the initial investment is a little greater than necessitated by other forms of floor and partition construction, although over a period of time it is less) we most strongly urge upon you the use of Hollow Tile at least for the main floor.

With a Hollow Tile main floor, should a fire start in the basement—where so many fires in homes have their origin—its rise to the living quarters would be most effectively checked. You, of course, know the rapidity with which fire spreads, and you will, we are sure, realize that no matter how modest a home you are planning to build, you cannot afford to use

other than Hollow Tile construction at least for the main floor of your house.

Hollow Tile floors are *dust-proof*. They insure a maximum of cleanliness and a minimum of work. With Hollow Tile floors you need not be annoyed by the film of coal dust which penetrates so easily through ordinary floor construction.

Not alone does Hollow Tile floor construction prevent coal dust from soiling the walls and furnishings of your home, but it actually protects your clothes. As you know from bitter experience, no doubt, even though you hang your clothes in cloth covers, it is impossible to protect them entirely from the detrimental effects of coal dust. The only way effectively to solve this problem is to have Hollow Tile floor construction, which neither coal dust nor anything else can penetrate.

Hollow Tile floors and partitions *dead*en noise. They insure a pleasant degree of quiet in every room. The children may play and romp in the nursery or elsewhere to their heart's content, without distracting other members of the family. The Hollow Tile floors and partitions will effectively muffle all sounds.

These features will also appeal to you in connection with the kitchen and bathroom of your home.

The heating of a home, or other building, as of course you know, is dependent

not only upon the heating plant, but also upon the construction of the building. Hollow Tile floors are an important aid in keeping a building warm at minimum expense. Hollow Tile floors and partitions are permanent.

Do not these advantages convince you that you should have Hollow Tile floors and partitions in your home?—It is true, the initial cost is a little more, but you are making an investment, not an expenditure.

And you will have a big return in the added comfort and quiet of your home, in the reduction in your heating expense, in the lessening of housework, in the elimination of upkeep.

You may never build another home.—Surely, you will want to build your home just as permanently as you can for the money you spend.

“For a man’s house is his castle.”



Hollow Tile floors are easy to lay. Illustration shows tile and reinforcing rods in place ready for the concrete, which forms joists and covering.

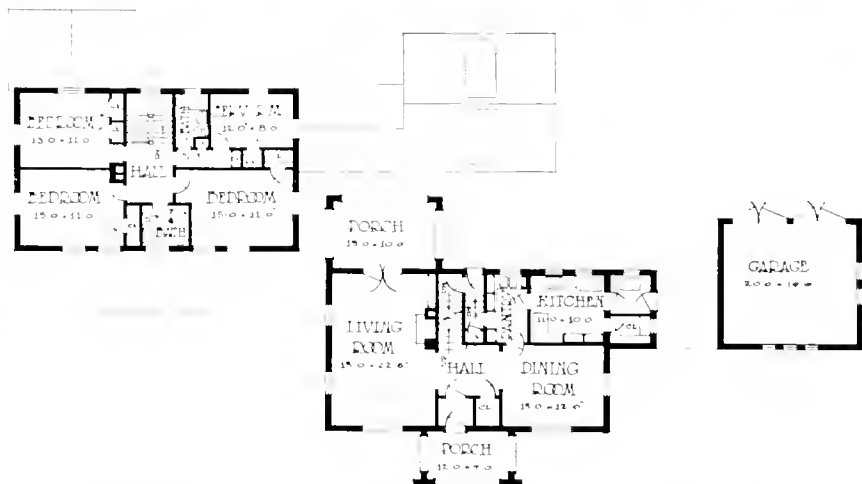


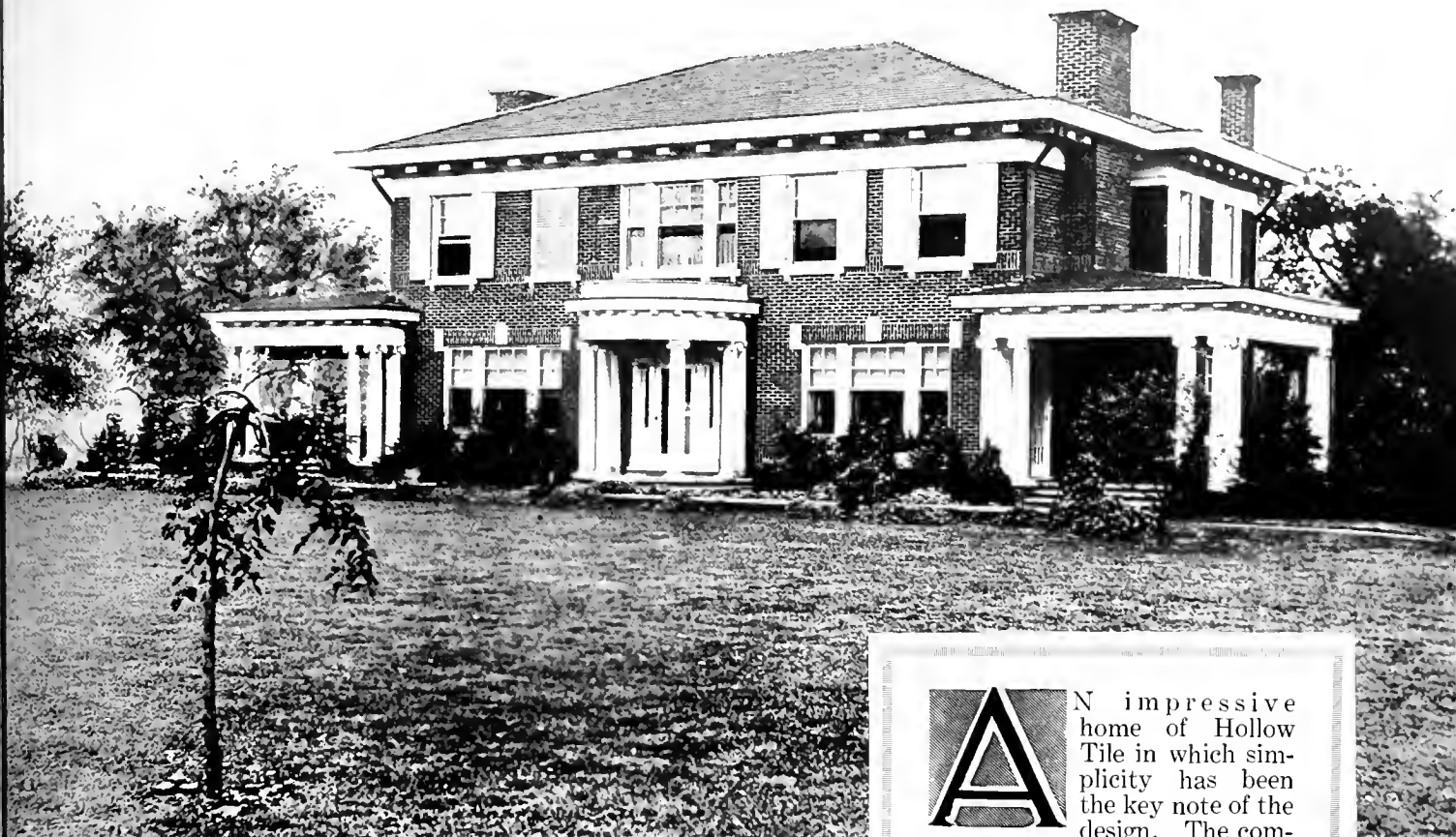
A

WELL designed Hollow Tile suburban house and garage. It contains seven rooms, pantry and two baths.

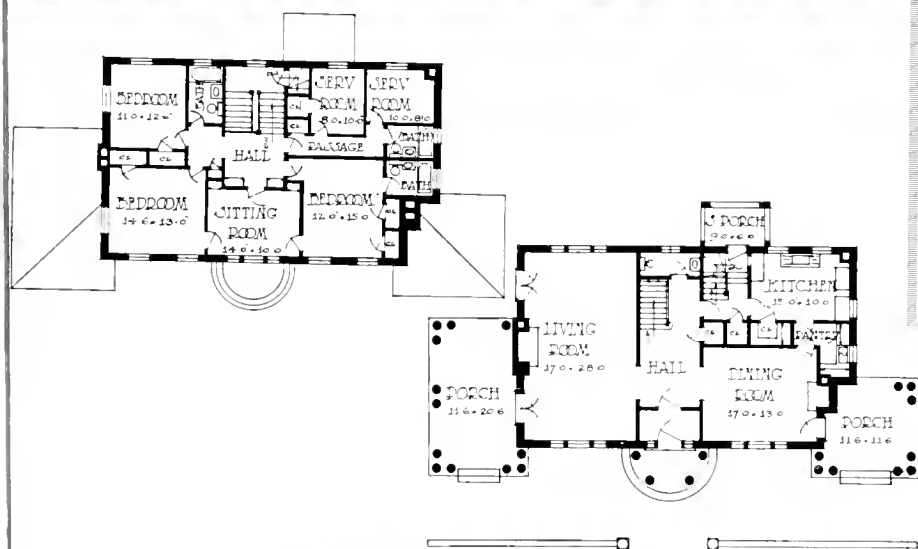
Has large living room, enclosed porch extension and four good sized bedrooms with ample closet space. Simple roof lines and out-swinging casement windows add much to the charm of this home.

One of the modern features, and a very desirable one now, is the well arranged two-car garage with covered entry to kitchen attached as rear wing.





N impressive home of Hollow Tile in which simplicity has been the key note of the design. The combination of Hollow Tile walls with brick veneer accents the Colonial design and tends to lend distinction to this splendid dwelling. Modifications of the floor plan, due to the ample space provided, will enable this home to be utilized to meet the personal desires of almost anyone wishing a pretentious home on a good sized lot.



Hollow Tile is Fireproof

Hollow Tile is absolutely fireproof. It has for years been used for fireproofing purposes in the building world. It is adaptable to small structures as well as to large. Office buildings, factories, institutions everywhere, as well as other buildings erected with steel have the entire supporting steel frame covered with Hollow Tile to guard against the devastating effects of fire. In fact, it is this wall of Hollow Tile, with its confined air cells preventing the passage of heat waves, that gives to steel structures their absolute safety and resistance to serious fires.

You would not, we are sure, knowingly endanger the lives of your loved ones, when you can so easily have a Hollow Tile home.

with its splendid fireproof qualities, and at an ultimately lower cost. For fire cannot penetrate a Hollow Tile wall.

Hollow Tile reduces your fire risk to a minimum.

Thus, in addition to being an economical healthful building material, Hollow Tile will practically insure your home and family against the so often tragic results of fires in the home.

Because Hollow Tile provides all this, and does so without the need of increased expenditure on your part, but on the contrary, lessens your expense, it demands your most earnest thought and consideration.

"For a man's house is his castle."

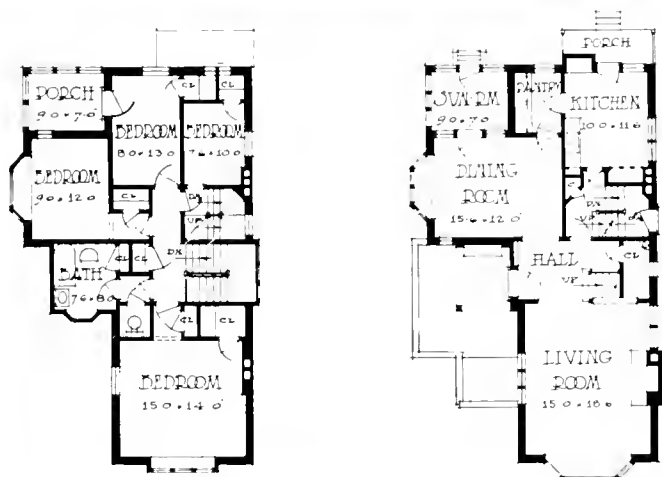


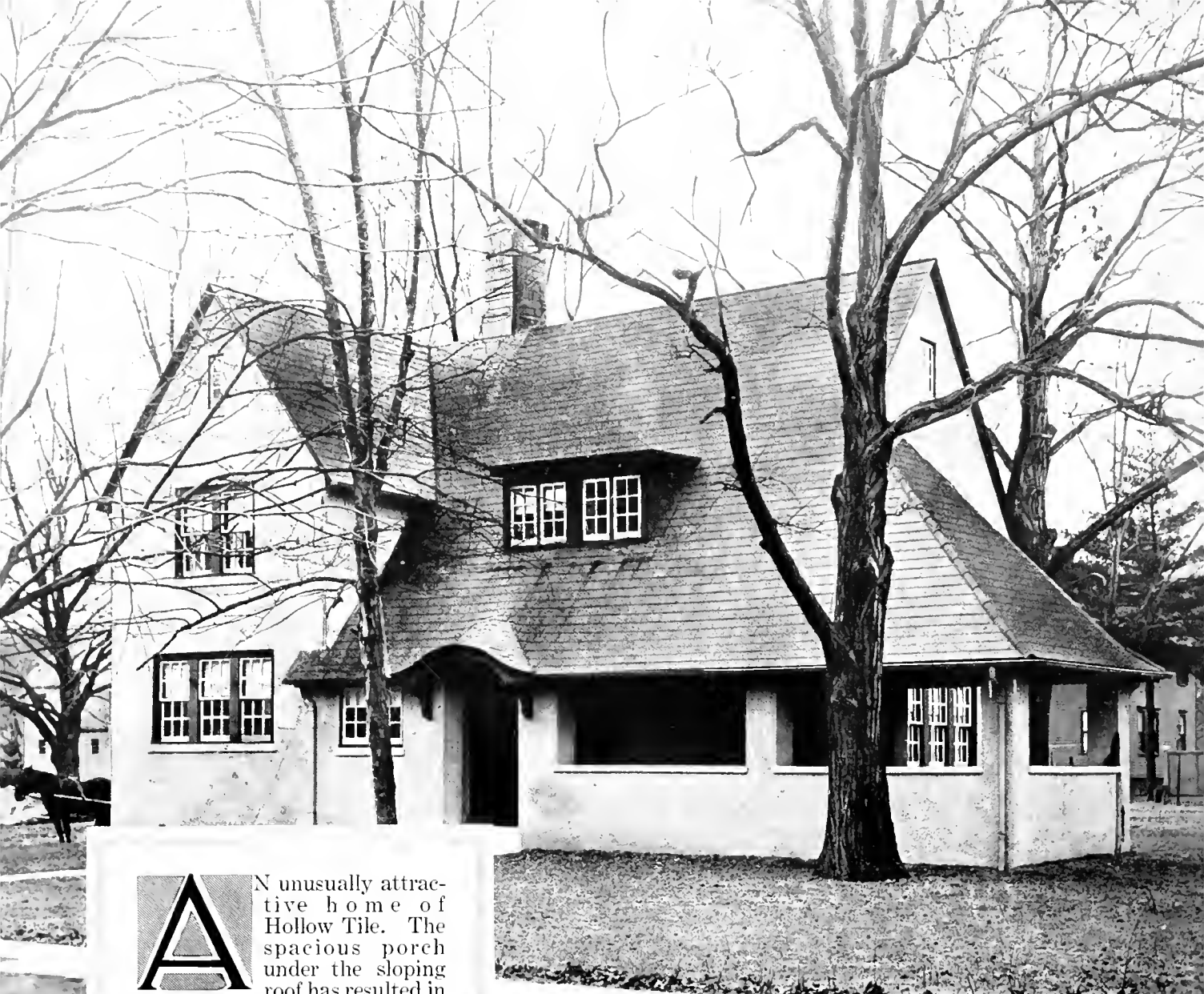
Hollow Tile house under construction, before stucco has been applied.

MASTERTILE



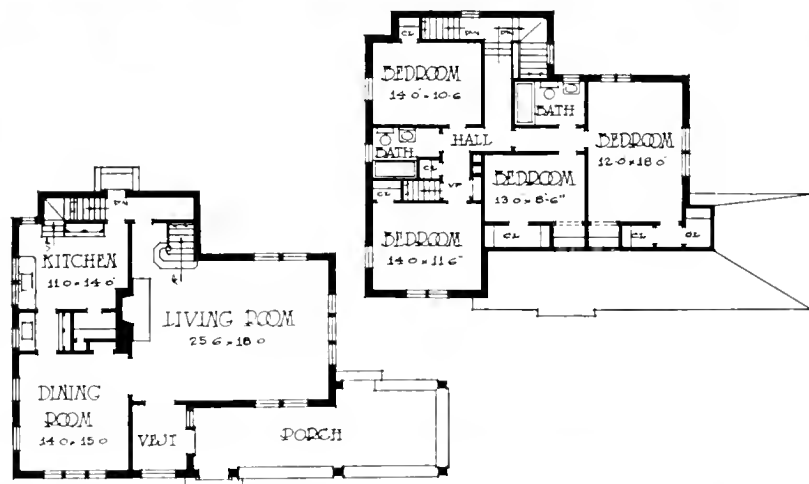
HERE effectiveness with unusual distinction has been obtained. An exceptionally well planned city home suitable for narrow lot. In this typically English design, half timber on tile, stucco on tile, and brick veneer on tile are combined. Ordinarily the space occupied by the two small servants bedrooms in rear of second story would be one large bedroom and the servants bedrooms placed in the rear of attic story.





AN unusually attractive home of Hollow Tile. The spacious porch under the sloping roof has resulted in a wonderfully effective design.

The dormer, breaking the monotony of the roof, lends charm and dignity. The floor plan is clever in its arrangement and provides ample sized rooms on all the floors.



Build Now

In planning your home, you will, of course, want to engage the services of an architect. Unless you have technical building knowledge, you will want him to draw up your plans and to give you the benefit of his practical experience and technical knowledge. This is highly important, as the moderate fee of an architect for advice and suggestions will pay for itself over and over again in the elimination of costly mistakes which all amateur builders are bound to make, unless they avail themselves of a dependable architect's services.

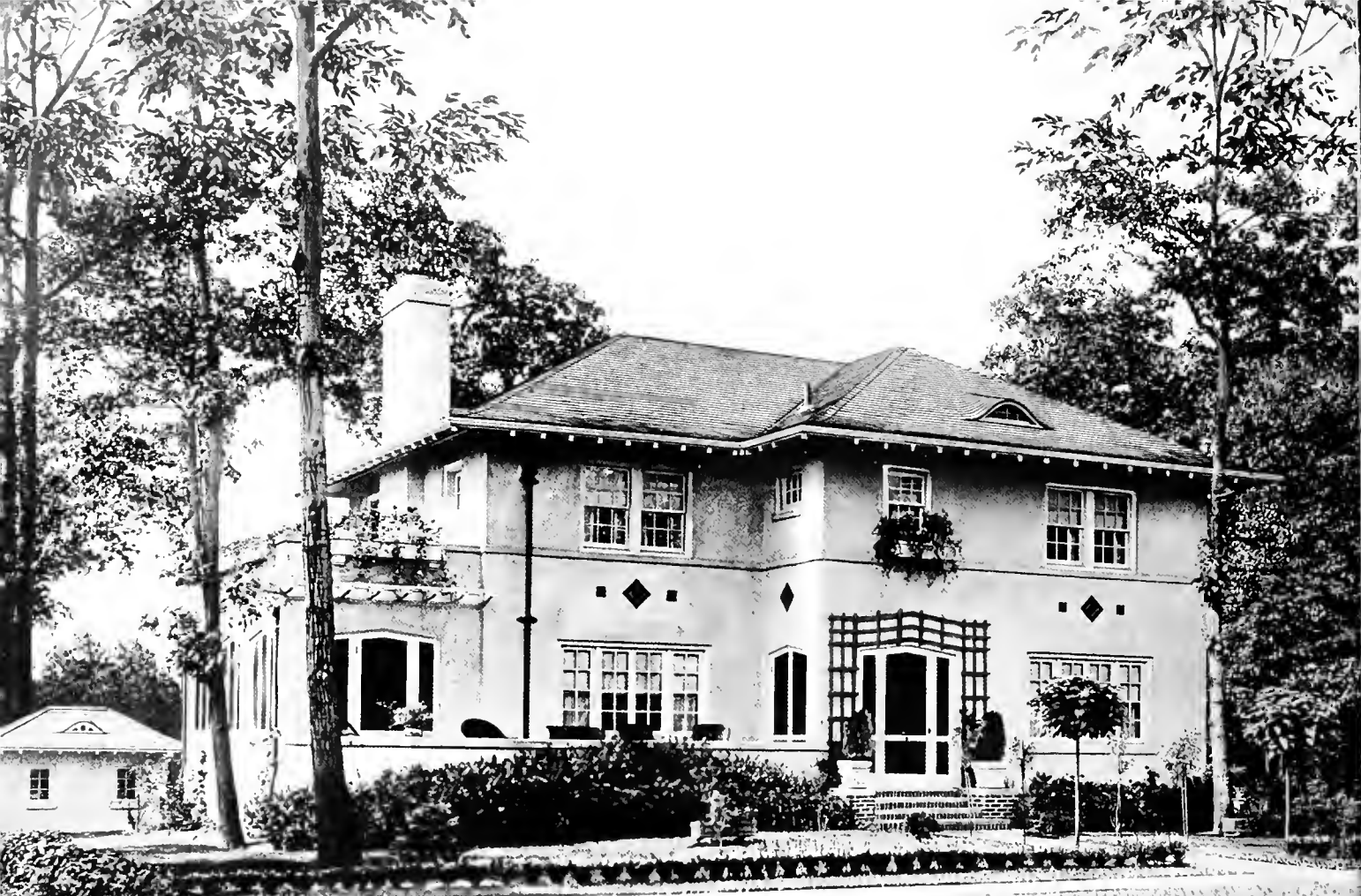
There probably never was a greater need for home building than now. The housing problem in both cities and villages is a very

serious one. There is an acute and alarming shortage of homes and apartments. Rents are rising continuously.

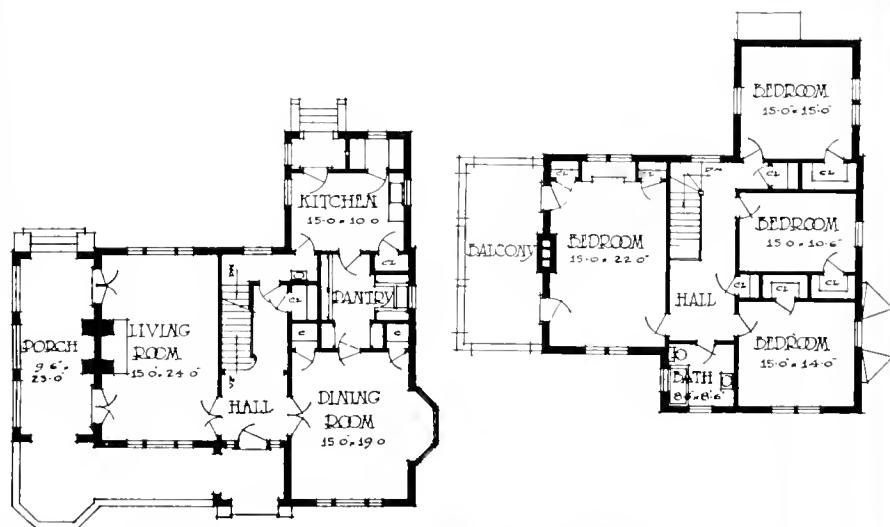
Build now. According to the United States Department of Labor, the cost of building materials and labor in the building trades has not advanced, up to this time, in the same ratio as other costs. It is logical to assume, therefore, that a decline in other prices, even if it were to occur, would not affect building costs. So you would not be justified in waiting for lower building costs.

So, why not solve your housing problem and *build now*?





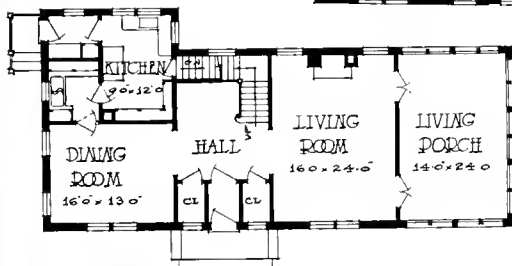
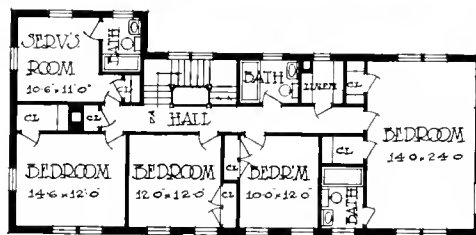
CHARMING suburban home of Hollow Tile. Large living and dining rooms, double porch and ample service quarters, make this house suitable for extensive entertaining. The simple roof lines, lattice and flower boxes are largely responsible for the beauty of this house. Note that both casement and double hung windows are used and are divided into similar size panes for uniform appearance.





THE design of this home blends splendidly with the natural surroundings. The sun parlor is spacious and lends distinction and elegance to the plan as a whole. The exposure and light on all sides permit of a convenient room arrangement.

The tile roof, combined with the stucco finish over Hollow Tile, illustrates the possibilities in this method of construction.

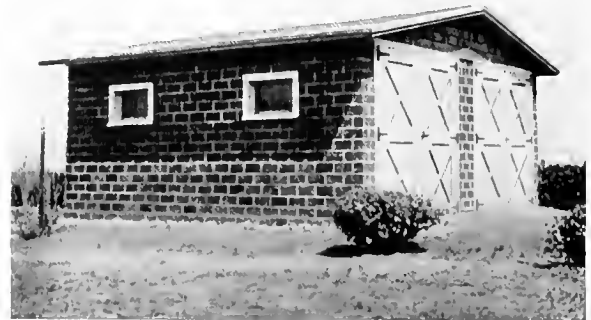




The Hollow

It was not so many years ago that a shed, or some other unsubstantial accessory building, as long as it didn't cost much, was considered "good enough" for the housing of an automobile. Bitter and costly experience, however, proved that a substantially built garage was, in the long run, the cheapest. And that is why garages are now being erected everywhere of permanent, substantial building material, to afford the greatest protection possible to the car, both from communicated fires and the disastrous effects of severe winter weather.

A garage may be constructed of Hollow Tile with the greatest possible saving in labor and mortar, for Hollow Tile units are large, easily handled, and quickly erected. And you can have a garage that will harmonize with your home and surroundings, for Hollow Tile lends itself to every phase of construction.



Tile Garage

However, the outstanding advantage of Hollow Tile for the garage—the feature that makes Hollow Tile invaluable for garage construction—is the protection given your car against weather and fire.

A Hollow Tile Garage is easily heated. This is due to the scientific cellular construction of Hollow Tile, which retains the heat and will not permit the cold to penetrate.

Your car is protected from communicated fires by the Hollow Tile Walls through which fire cannot penetrate.

A Hollow Tile garage, whether the tile are left exposed or covered with an exterior finish in harmony with your home, will not deteriorate, will not require repairs or replacements, and will, at the same time, be a substantial, attractive addition to your home.



Hollow Tile and Solid Facts

HOLLOW TILE IS PERMANENT.

HOLLOW TILE DOES NOT REQUIRE REPAIRS OR REPLACEMENTS.

HOLLOW TILE WILL NOT RUST, DECAY, DISINTEGRATE, WARP, SAG,
EXPAND, CONTRACT.

HOLLOW TILE IS FIREPROOF.

HOLLOW TILE IS LIGHT IN WEIGHT.

HOLLOW TILE IS IMPENETRABLE—COLD, MOISTURE, DIRT, COAL DUST,
CANNOT PENETRATE HOLLOW TILE.

HOLLOW TILE REDUCES LABOR AND MORTAR COSTS.

HOLLOW TILE MINIMIZES YOUR FIRE RISK.

HOLLOW TILE REDUCES FUEL CONSUMPTION.

HOLLOW TILE REDUCES DEPRECIATION.

HOLLOW TILE IS ADAPTABLE TO EVERY STYLE OF ARCHITECTURE.

HOLLOW TILE IS ECONOMICAL.

Details of Hollow Tile Construction

PUBLICATIONS

Those who are going to build will find many suggestions in the following pages, but should have their contractor or builder write to The Hollow Building Tile Association for the Builder's Manual which covers the subject of Hollow Tile construction in greater detail.

"Hollow Tile Farm Buildings" is another Association publication which contains illustrations of many types of farm buildings from actual photographs.

The architect and general contractor will be interested in "The Hand Book of Hollow Tile Construction," which covers the subject as applied to the larger structures and includes fireproofing.

CONSTRUCTION SUGGESTIONS

Stucco finish should not be applied in cold weather.

Window frames of a size that will fit in with the tile units without cutting, should be used whenever possible.

Partly completed walls should be covered at night, particularly during bad weather, to protect the newly completed work against damage from rain, snow and frost.

Hollow Tile should not be dumped from trucks or wagons. Each size or shape should be piled separately. Breakage will be avoided and a saving effected in the mason's time.

Tile should be so built in the wall that all open ends of the tile are sealed up to preserve the insulating value of the air cells.

Wood frames will shrink away from the masonry and therefore caulking while not necessary, is often advisable around doors and windows in exposed windy locations.

The large units in which Hollow Tile is made not only affords the simplest type of permanent construction but permits or rapid building progress and considerable saving in both labor and mortar.

While in the majority of Hollow Tile residences the stucco and inside plastering is applied directly to the tile wall, it is recommended, especially in northern parts of the country, that the tile be furred and lathed on the inside. This adds to the insulation and overcomes any possible faulty construction.

In laying up vertical cell tile the masons or bricklayers, should be instructed to butter the vertical joint surfaces of tile about $2\frac{1}{2}$ to 3" in from the inner and outer faces leaving the center free of mortar, so that when laid in the wall through vertical mortar joints will be avoided as far as possible.

The proper use of Hollow Building Tile is not at all difficult, once a few simple rules are understood. The methods of bonding the walls at corners and around door and window openings and of maintaining a proper break-joint bond throughout the wall, are easily mastered by anyone who can handle a trowel.

A waterproofing compound is recommended where an ordinary cement and sand mixture is used for the stucco finish. Such mortars rarely are of a density that will prevent entirely the absorption of some moisture and a wall that shows dampness or does not dry out immediately after a rain is unsightly even though the dampness cannot penetrate the tile.

Estimating the quantity of tile required for a given building may be done roughly. It is only necessary to figure the square foot area of work to be done, adding for the lineal area of lintels, copings and for other special work. In ordering the tile, however, the quantities of the several shapes required should be carefully figured and clearly specified. In figuring quantities, all openings in walls over 4 square feet may be deducted.

The method of finishing walls should be settled before window frames are ordered. Stock window frames of the sizes best adapted to fit the Hollow Tile units with the least amount of cutting and fitting should be used. All window frames for use in walls finished with stucco should have either the regular staff beads or a staff moulded to finish up against the stucco. Staff bead should be full depth of outside casing where recessed jamb tile are not used.

TABLE OF QUANTITIES FOR CEMENT MORTAR

Hollow Building Tile should be set with cement mortar composed by measure of one part Portland cement to not more than three parts clean sharp sand, to which may be added lime paste or hydrated lime not exceeding 20% by measure of the cement.

Table gives quantities of mortar materials required to lay up 1000 pieces Hollow Tile (pieces not square feet) of the various sizes given. This table allows about 10 per cent for waste and is based on the mixture that is recommended for Hollow Tile construction consisting of one part Portland cement and three parts sand, to which 20 per cent of hydrated lime or lime putty is added.

Size of Tile	Thickness of Wall	Approximate Quantity of Mortar Cu. ft.	Mortar Materials Required				These Quantities for Ordering Lump Lime in Lbs.
			Cement Sacks	Sand Cu. ft.	Dry Hydrated Lime Lbs.	Lump Lime Paste Cu. ft.	
4x5x12	4"	18.8	6.33	19.	51	1.25	39
4x5x12	5"	22.6	7.6	22.8	61	1.52	47
8x5x12	5"	24.5	8.25	24.8	66	1.65	51
8x5x12	8"	35.9	12.1	36.3	97	2.42	75
4x5x12	12"	64.2	21.6	64.9	173	4.33	133
8x5x12	4"	22.	7.4	22.2	59	1.48	46
4x12x12	6"	30.5	10.3	30.5	82	2.05	63
8x12x12	8"	50.7	17.1	51.3	137	3.42	103
12x12x12	12"	75.2	23.2	76	203	5.08	156

"A" "B" "C"

Use either one of Columns "A" and "B".

Column "A" is for dry hydrated lime purchased in bags.

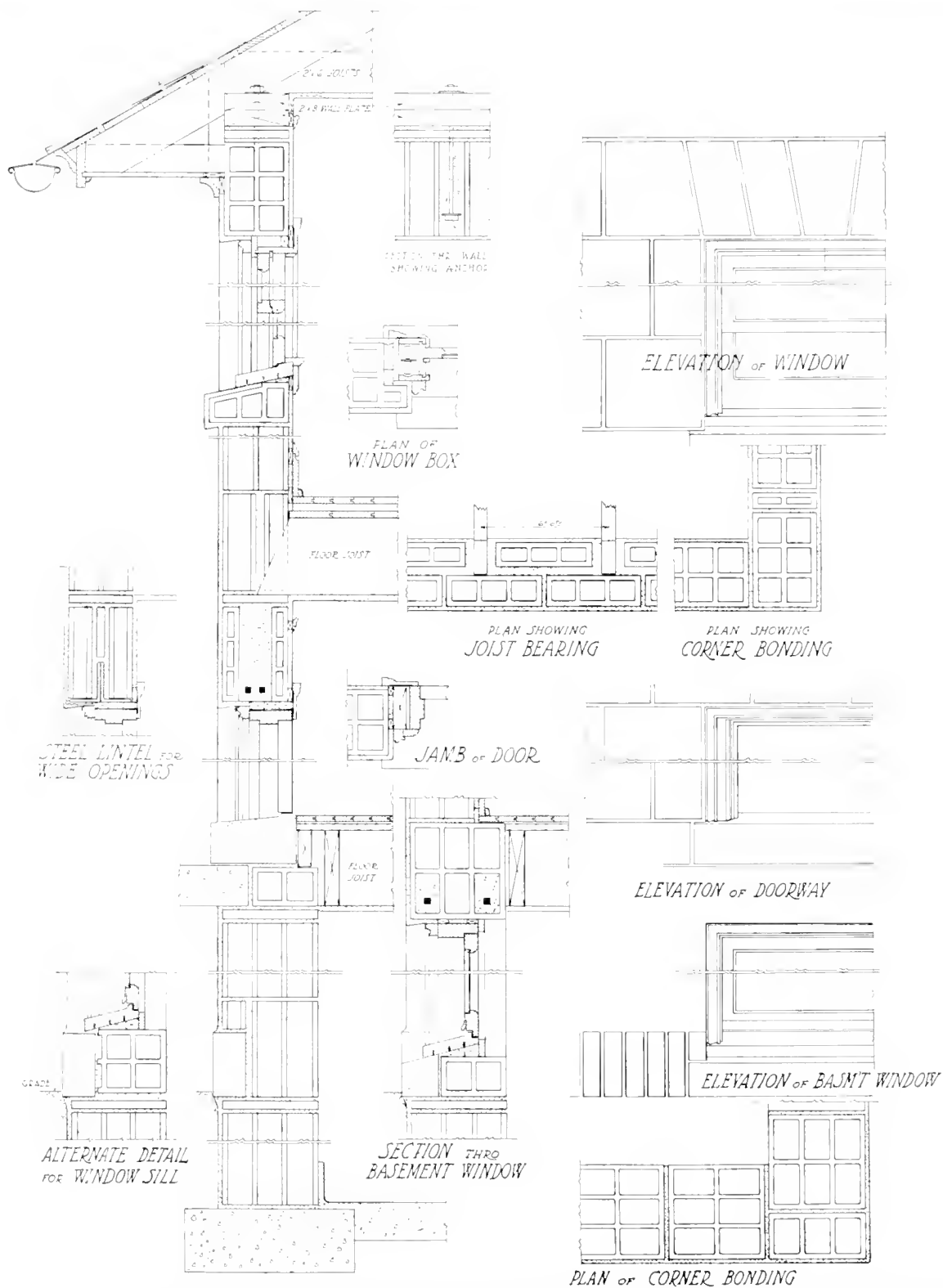
Column "B" is for lump lime purchased by barrel or ton.

Column "C" gives the approximate quantity of lump required to make the amount of lime paste given in Column "B".

MATERIALS FOR 100 SQUARE FEET OF CEMENT MORTAR FOR STUCCO

Thickness in Inches	1:1		1:2		1:3	
	Cement Bbls.	Sand Cu. yds.	Cement Bbls.	Sand Cu. yds.	Cement Bbls.	Sand Cu. yds.
$\frac{1}{2}$.60	.14	.50	.15	.37	.17
$\frac{3}{4}$.90	.20	.74	.22	.55	.25
1	1.20	.27	1.00	.29	.74	.33
$1\frac{1}{2}$	1.79	.40	1.48	.44	1.10	.49

MASTER TILE



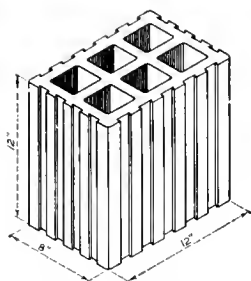


Fig. 880—8x12x12 unit for End Construction. See page 42.

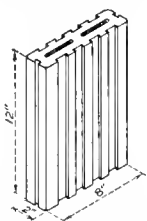


Fig. 884-A—2x8x12 unit for End Construction.

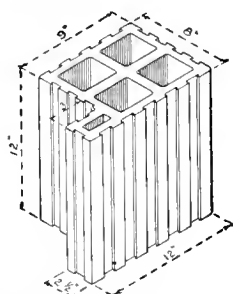


Fig. 938—Jamb Tile for End Construction.

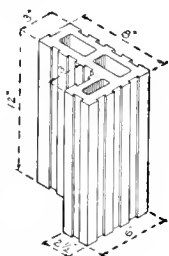


Fig. 939—Half-Jamb Tile for End Construction.

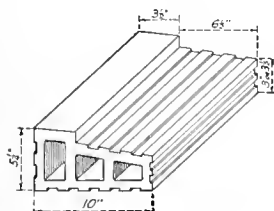


Fig. 906—Sill Tile for both End and Side Construction.

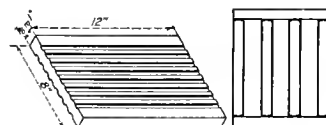


Fig. 928—1 inch Slabs for End Construction. Showing form in which Slabs are usually made. A tap on the corner separates the tile into slabs.

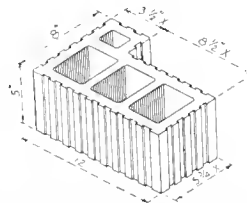


Fig. 950—Special Corner Tile for Side Construction. See Figures 102, page 46.

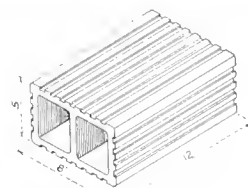


Fig. 877—8x5x12 unit for Side Construction. See pages 44 and 46.

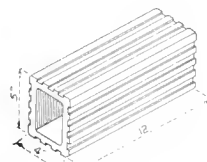


Fig. 877-A—4x5x12 unit for Side Construction.

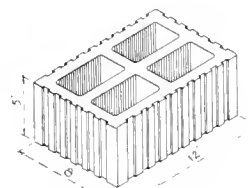


Fig. 948—Closure Tile for Side Construction.

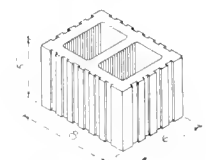


Fig. 948-A—Half-Closure Tile for Side Construction.

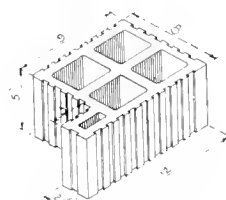


Fig. 949—Jamb-Tile for Side Construction.

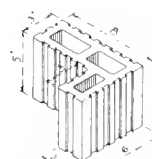


Fig. 949-A—Half-Jamb Tile for Side Construction.

WALL THICKNESS

The average thickness of wall for small or moderate sized houses, built of Hollow Tile is 8". This is ample for all ordinary requirements.

For the larger and more pretentious home a 12" foundation and first floor wall is generally used with an 8" wall for the second and attic stories.

FOUNDATIONS

For small or moderate sized residences, garages, stores, and similar buildings, Hollow Tile foundation walls should be used. They have ample strength and are in every way satisfactory. This type of foundation wall gives a drier basement or cellar than the average wall of solid masonry of the same thickness.

When the foundation walls are built in a constantly saturated soil, the exterior face should be plastered with a coat of cement mortar in order to insure the sealing up of any small openings in the mortar joints.

WINDOW FRAME SIZES

When box frames for double hung sash windows are to be set in the wall with recessed jamb tile or the hollow tile walls otherwise recessed around box frames, the best widths of stock frames for use in stucco finished walls for residence buildings are 28", 34" and 40" for the main windows and 16" and 22" for the pantry, toilet and small hall or closet windows, using the 22", 28" or 34" widths of lesser heights for bathroom and kitchen, etc. All sizes referred to are glass sizes for single light sash. Where divided sash are desired the same sizes, specified divided for 3, 4, 6 and 8 lights should be used in preference to other sizes of divided light sash.

In houses where the main windows are set with the head on a line with the heads of doors, as they should be, the best glass heights to use in double sash windows are 26" for the main windows and 16" or 20" for the smaller windows.

If these sizes are used, very little cutting and fitting of the tile around openings will be required.

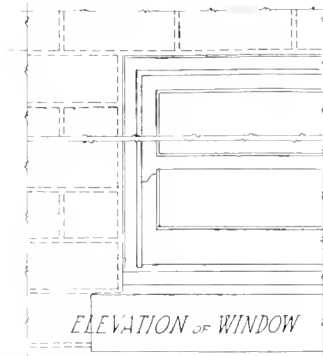
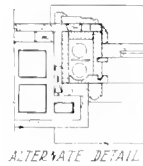
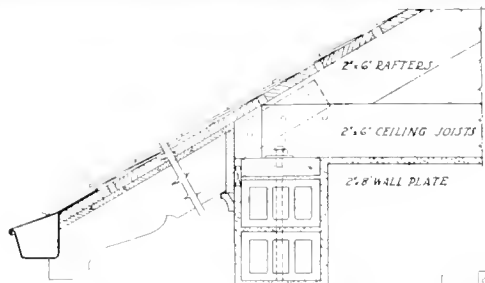
CHIMNEYS

Chimneys should always be built on a solid foundation resting on earth at a level of footing well below the frost line, whether they are interior or exterior chimneys, and should not be corbelled out as a projection from a wall.

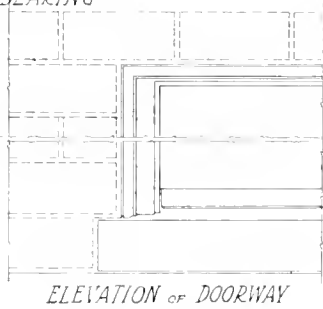
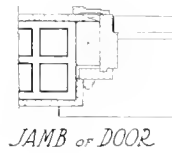
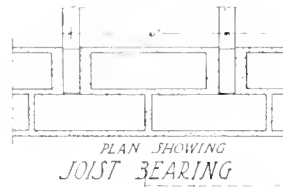
Footing for chimneys should be at least 6" or 8" wider all around than the chimney foundation and for small chimneys should be 12" wider all around. All chimneys should have a flue lining with 8" tile wall from the top of fireplace (which may have greater thickness) to roof.

SPECIAL SHAPES

This page shows only the standard shapes of tile. There are other types of MASTERTILE than those illustrated. Each type has its proper complement of special shapes, such as corners, starters, and jambs. The particular advantages claimed by the manufacturers of these special types of tile will be found in their individual literature.

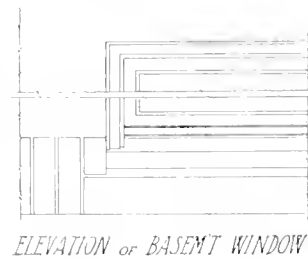
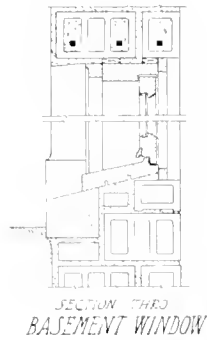


FLOOR JOIST



ALL IN STONE, CONCRETE
1/2 BRICK IN EDGE

2" x 10" JOISTS



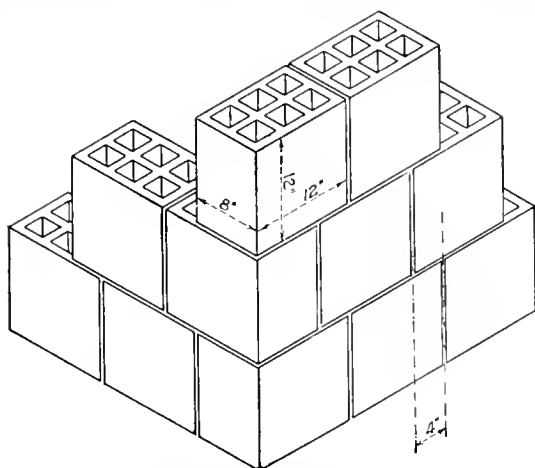


Fig. 113—The usual corner bond for end construction tile in 8" wall when surfaced with stucco.

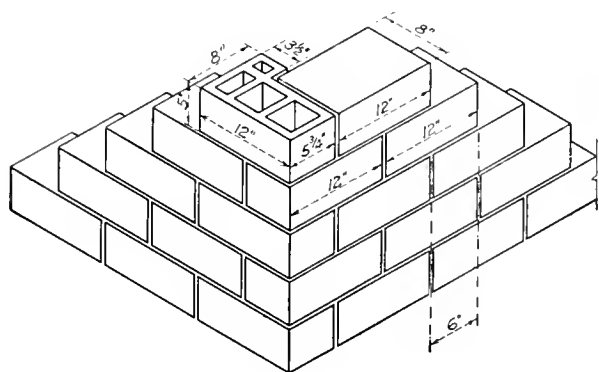


Fig. 102—Bond on 8" side construction tile wall, using special corner tile.

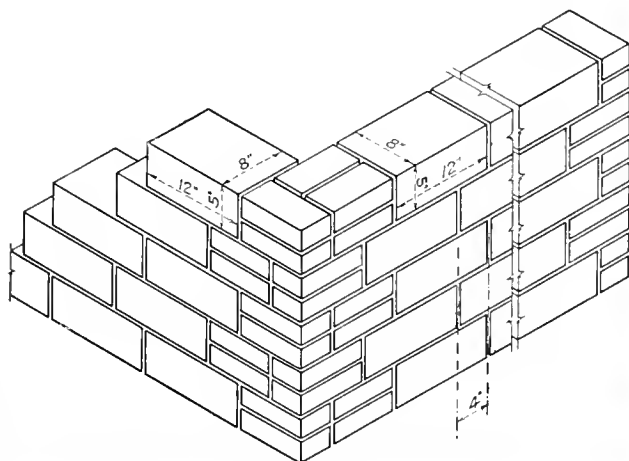


Fig. 103—Bond on 8" side construction tile wall, using brick for corners and openings.

Fig. 951—Flemish Bond with 8"x12" end construction tile cut so that bond occurs every fifth course.

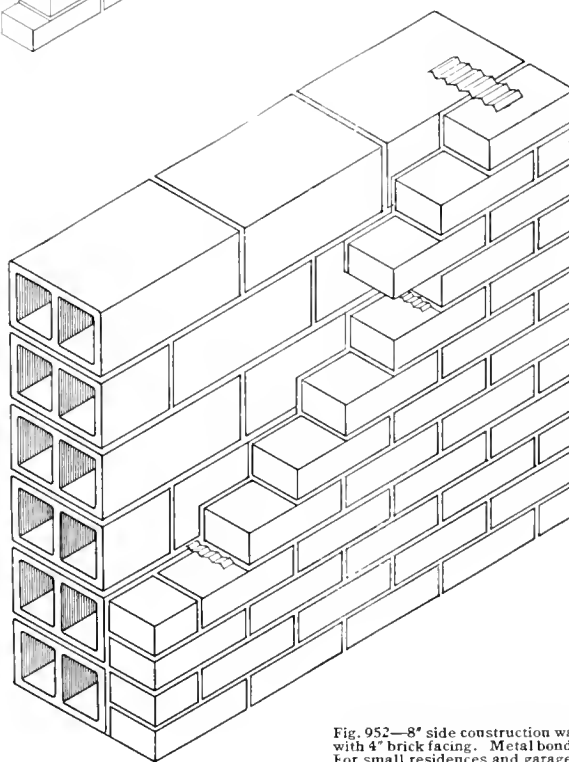
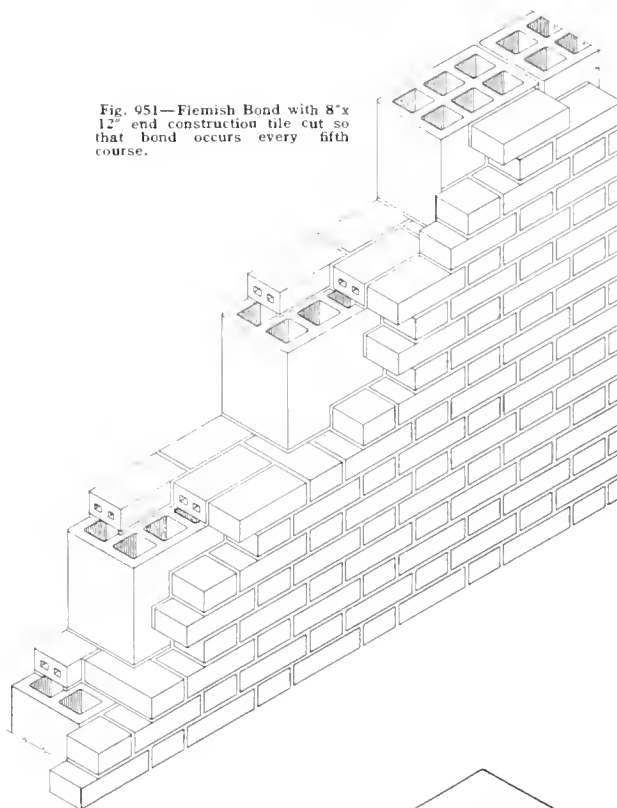
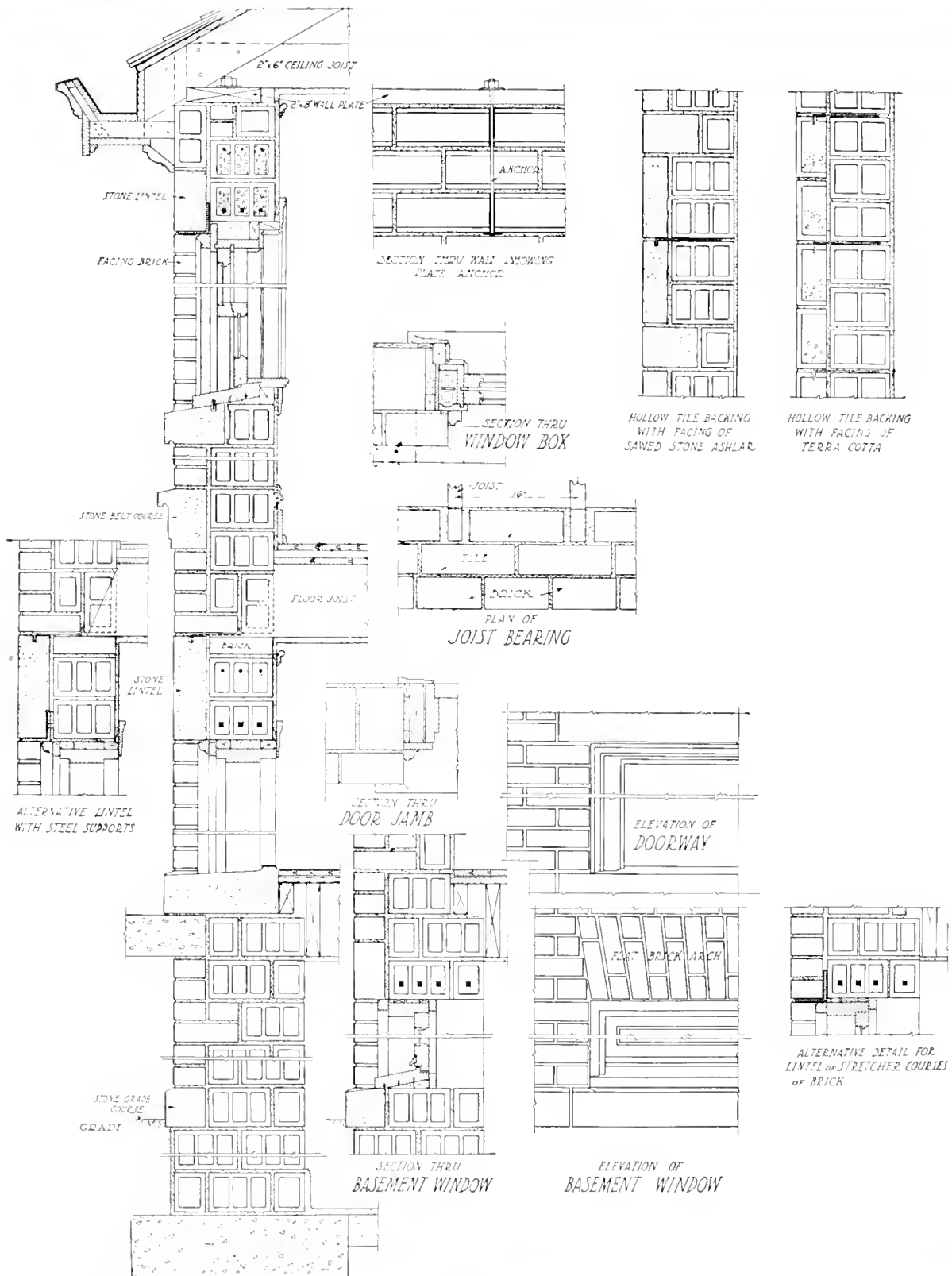


Fig. 952—8" side construction wall with 4" brick facing. Metal bonds. For small residences and garages.



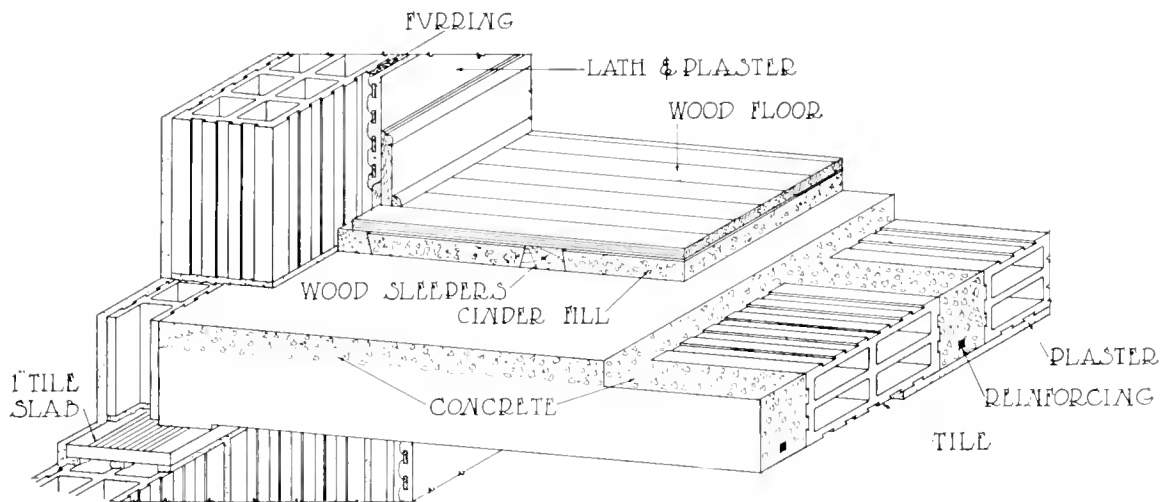


Fig. 953—Simple detail of one way reinforced tile and concrete floor. Thickness of floor and size of reinforcing rods depend on the width of span.

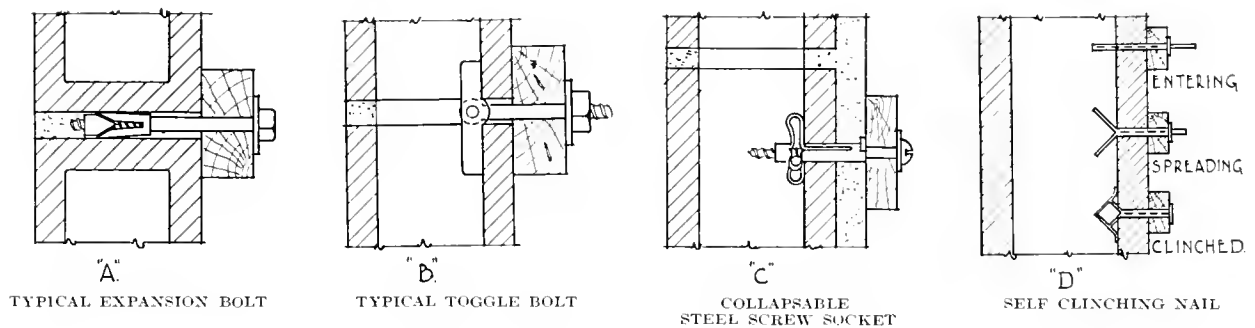


Fig. 942—Various methods of attaching to Hollow Tile walls.

ATTACHMENT OF WOOD PORCHES:

Note carefully the method of attaching wood porches and similar additions to Hollow Building Tile walls. Bolts or anchors are built into the wall and when wall is completed nailing strip is fastened to face of the wall and the roof or other wood members spiked to these nailing pieces as shown by Fig. 941. This method is much superior to the building of rafters or porch joist into the Hollow Tile walls. Ordinary $\frac{3}{4}$ ", $\frac{5}{8}$ ", or $\frac{1}{2}$ " bolts are used and are built in as the wall is erected. When bolts are put in after wall is completed a toggle bolt is used if placed in the end to end joints of tile or an expansion bolt if placed in the side or bed joints, as shown by Fig. 942.

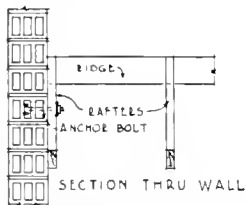


Fig. 941-A—Sectional detail of porch attachment.

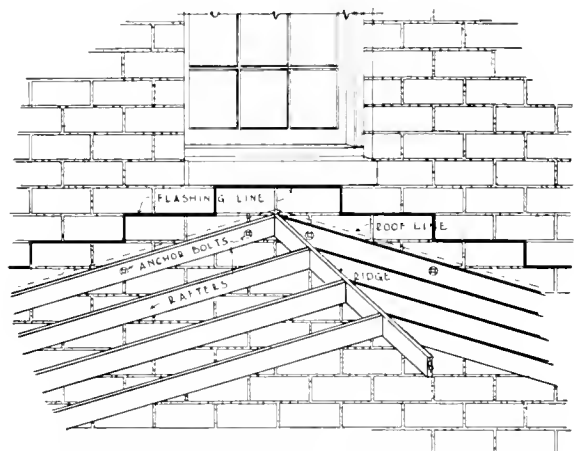


Fig. 941—Detail showing method of fastening and flashing of porch against Hollow Tile walls.

MASTERTILE

MASTERTILE

means much to you, for it is the mark of a standard building product. Hollow Building Tile has been time-tested, time-tried and approved, and fulfills every building need in a most satisfactory manner.

MASTERTILE is the product of the leading manufacturers of Hollow Building Tile, who have agreed upon certain standards, certain requirements, and definite specifications, in order to manufacture a building material which will secure the maximum value for you and satisfy every building requirement.

MASTERTILE insures all that is best in Hollow Building Tile.

The purpose of this and similar publications is to acquaint the public more thoroughly with the application of Hollow Building Tile, and thereby bring about its wider use.

The Hollow Building Tile Association maintains an Engineering Department whose purpose is to furnish adequate information regarding the use of this material.

The Hollow Building Tile Association

C O N W A Y B U I L D I N G

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MASTERTILE

The trade-mark of The
Hollow Building Tile
Association and your
guarantee of a product
made in accordance with
Association standards.